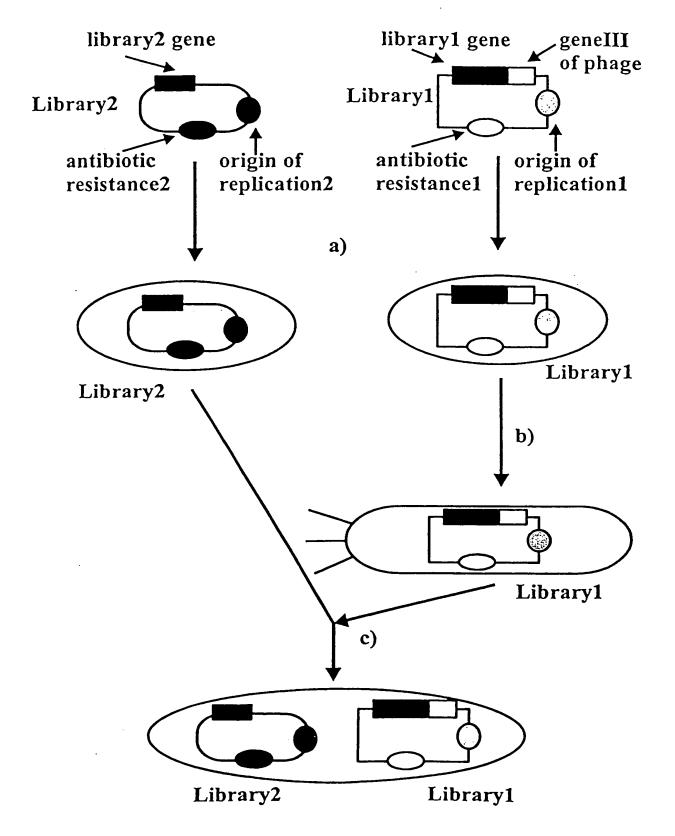
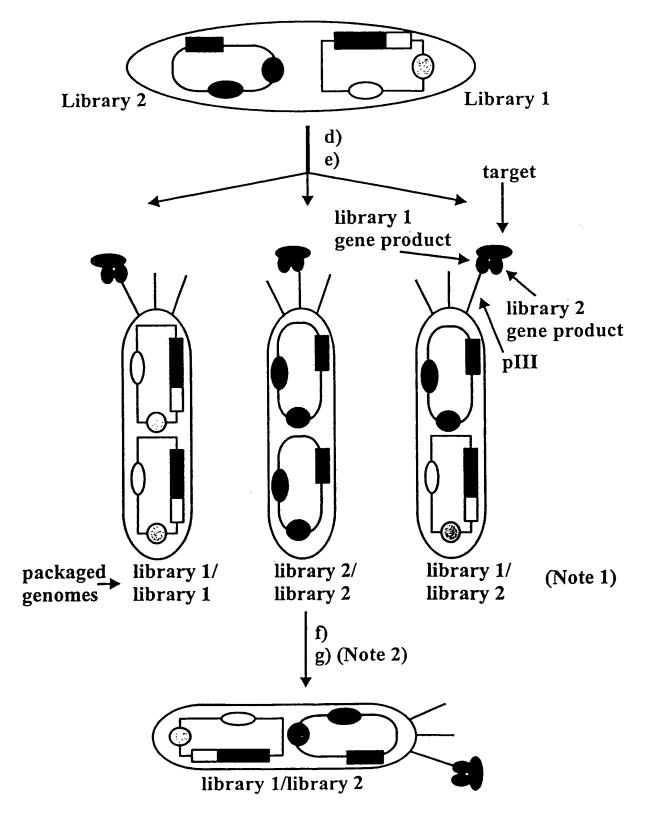
1/39
Figure 1A: General description of the polyphage principle



BEST AVAILABLE COPY

2/39 Figure 1B: General description of the polyphage principle (cont.)



3/39

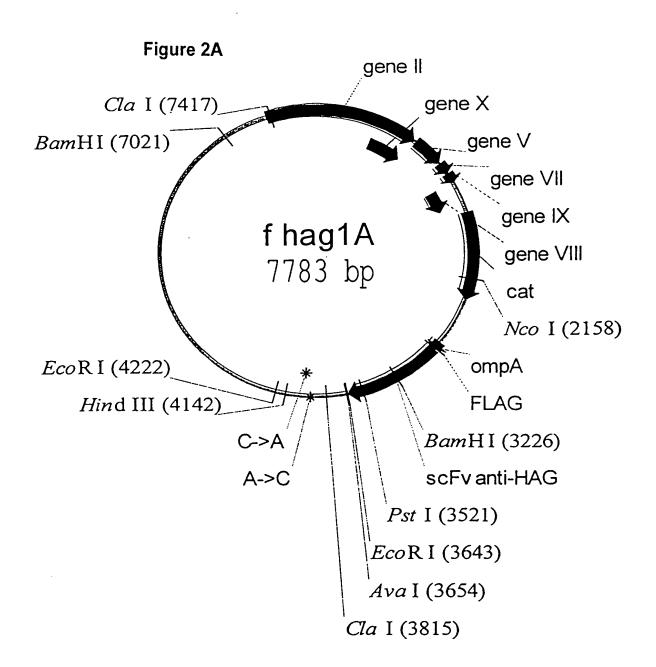


Figure 2B		4	./39		
•	AACGCTACTA	CCATTAGTAG	AATTGATGCC		CTCGCGCCCC GAGCGCGGGG
51					AATGTATCTA TTACATAGAT
101				ATTGGGAATC TAACCCTTAG	AACTGTTACA TTGACAATGT
151			•	GTTGCATATT CAACGTATAA	TAAAACATGT ATTTTGTACA
201				CTCTAAGCCA GAGATTCGGT	TCCGCAAAAA AGGCGTTTTT
251				TACTGTCTAA ATGACAGATT	TCCTGACCTG AGGACTGGAC
301				GAGGCTCGAA CTCCGAGCTT	
351				TCTTTTTGAT AGAAAAACTA	
401				ACCTGATTTT TGGACTAAAA	
				TTTGAGGGGG AAACTCCCCC	
				TATCCAGTCT ATAGGTCAGA	
				CAAAAGCCTC GTTTTCGGAG	
				TATGATAGTG ATACTATCAC	
				ATCTGCATTA TAGACGTAAT	
				CCACCTGTAA GGTGGACATT	
				TCCTCCCAAC AGGAGGGTTG	
				AGGTAATTCA TCCATTAAGT	

Figure 2	C		5/39		
851	AGTTGAAATT TCAACTTTAA	AAACCGTCTC	AAGCGCAATT	TACTACCCGT	TCTGGTGTTT AGACCACAAA
901				AGCAGCTTTG	_
301					AATGCAACTA
951				ATTACTCTCG TAATGAGAGC	
1001				GCATCTGTCC	
2002				CGTAGACAGG	
1051				GTCTGCGCCT CAGACGCGGA	
1101				CACAATTTAT	
				GTGTTAAATA	
1151				TTGGTATAAT AACCATATTA	
1201				CCTCTTTCGT	
				GGAGAAAGCA	
1251				CGTTTAATGG GCAAATTACC	
1301				GTAGCCGTTG CATCGGCAAC	
1351				CGATCCCGCA	
				GCTAGGGCGT	
1401				ATATCGGTTA TATAGCCAAT	
1451	ATGGTTGTTG TACCAACAAC			GGTATCAAGC CCATAGTTCG	
1501	ATTCACCTCG TAAGTGGAGC			GTTTCTCGAT CAAAGAGCTA	
1551	NNNGAGGTTC NNNCTCCAAG			TAAGATCACT ATTCTAGTGA	
1601	TTTTTTGAGT AAAAAACTCA			AAGGAAGCTA TTCCTTCGAT	
1651	AAAAATCACT	GGATATACCA	CCGTTGATAT		CATCGTAAAG

Figure 2D 6/39					
1701	AACATTTTGA TTGTAAAACT	GGCATTTCAG	TCAGTTGCTC	AATGTACCTA TTACATGGAT	
1751				ACCGTAAAGA TGGCATTTCT	
1801				TGCCCGCCTG ACGGGCGGAC	· · · · · · · · · · · · · · · ·
1851				GTGAGCTGGT CACTCGACCA	· · · · · · · · · · · · · · · · · · ·
1901				GAGCAAACTG CTCGTTTGAC	
1951				CCGGCAGTTT GGCCGTCAAA	
2001				ACCTGGCCTA TGGACCGGAT	
2051				GCCAATCCCT CGGTTAGGGA	
2101				GGACAACTTC CCTGTTGAAG	
	Nco]	Ţ.			
2151				GCGACAAGGT CGCTGTTCCA	
2201				GATGGCTTCC CTACCGAAGG	
2251	AATGCTTAAT TTACGAATTA			TGAGTGGCAG ACTCACCGTC	
2301	AATTTTTTTA TTAAAAAAAT			AAACGCCTGG TTTGCGGACC	
2351	GAATAAGTGA CTTATTCACT			GAAATTCGAA CTTTAAGCTT	· · · ·
2401	ACCCGGTCGT TGGGCCAGCA			AAATAGCCGC TTTATCGGCG	_
2451	TGCTGGTTTA ACGACCAAAT				
2501	CTCAAATGCC GAGTTTACGG			-	

Figur	e 2E	•	7/39		
2551	TTGCTCGACC	GATAAAAGCG	GCTTCCTGAC	AGGAGGCCGT	TTTGTTTTGC
	AACGAGCTGG	CTATTTTCGC	CGAAGGACTG	TCCTCCGGCA	AAACAAAACG
2601	AGCCCACCTC	AACGCAATTA	ATGTGAGTTA	GCTCACTCAT	TAGGCACCCC
	TCGGGTGGAG	TTGCGTTAAT	TACACTCAAT	CGAGTGAGTA	ATCCGTGGGG
2651	AGGCTTȚACA	CTTTATGCTT	CCGGCTCGTA	TGTTGTGTGG	AATTGTGAGC
	TCCGAAATGT	GAAATACGAA	GGCCGAGCAT	ACAACACACC	TTAACACTCG
2701	GGATAACAAT	TTCACACAGG	AAACAGCTAT	GACCATGATT	ACGAATTTCT
	CCTATTGTTA	AAGTGTGTCC	TTTGTCGATA	CTGGTACTAA	TGCTTAAAGA
2751	AGATAACGAG	GGCAAATCAT	GAAAAAGACA	GCTATCGCGA	TTGCAGTGGC
	TCTATTGCTC	CCGTTTAGTA	CTTTTTCTGT	CGATAGCGCT	AACGTCACCG
2801	ACTGGCTGGT	TTCGCTACCG	TAGCGCAGGC	CGACTACAAA	GATATCGTTA
	TGACCGACCA	AAGCGATGGC	ATCGCGTCCG	GCTGATGTTT	CTATAGCAAT
2851	TGACCCAGTC	ACCGTCCTCC	CTGACCGTTA	CCGCTGGTGA	AAAAGTTACC
	ACTGGGTCAG	TGGCAGGAGG	GACTGGCAAT	GGCGACCACT	TTTTCAATGG
2901	ATGTCCTGCA	CCTCCTCCCA	GTCCCTGTTC	AACTCCGGTA	AACAGAAAAA
	TACAGGACGT	GGAGGAGGGT	CAGGGACAAG	TTGAGGCCAT	TTGTCTTTTT
2951	CTACCTGACC	TGGTATCAGC	AGAAACCGGG	TCAGCCACCG	AAAGTTCTGA
	GATGGACTGG	ACCATAGTCG	TCTTTGGCCC	AGTCGGTGGC	TTTCAAGACT
3001	TCTACTGGGC	TTCCACCCGT	GAATCCGGTG	TTCCAGACCG	TTTCACCGGT
	AGATGACCCG	AAGGTGGGCA	CTTAGGCCAC	AAGGTCTGGC	AAAGTGGCCA
3051	TCCGGTTCCG	GCACCGACTT	CACCCTGACC	ATCTCCTCCG	TTCAGGCTGA
	AGGCCAAGGC	CGTGGCTGAA	GTGGGACTGG	TAGAGGAGGC	AAGTCCGACT
3101	AGACCTGGCT	GTTTACTACT	GCCAGAACGA	CTACTCCAAC	CCACTGACCT
	TCTGGACCGA	CAAATGATGA	CGGTCTTGCT	GATGAGGTTG	GGTGACTGGA
3151	TCGGTGGTGG	CACCAAACTG	GAACTTAAGC	GCGCTGGTGG	TGGAGGGTCT
	AGCCACCACC	GTGGTTTGAC	CTTGAATTCG	CGCGACCACC	ACCTCCCAGA
			BamHI		
3201	GGAGGAGGTG	GGAGTGGGGG	AGGTGGATCC	GGCGGGGGAG	GTTCAGGGGG
	CCTCCTCCAC	CCTCACCCCC	TCCACCTAGG	CCGCCCCTC	CAAGTCCCCC
3251	TGGCGGTAGT	GGAGGGGGCG	GTTCAGAAGT	TCAACTAGTT (GAATCCGGTG
	ACCGCCATCA	CCTCCCCGC	CAAGTCTTCA	AGTTGATCAA	CTTAGGCCAC
3301	GTGACCTGGT	TAAACCGGGT	GGTTCCCTGA	AACTGTCCTG (CGCTGCTTCC
	CACTGGACCA	ATTTGGCCCA	CCAAGGGACT	TTGACAGGAC (GCGACGAAGG

Figu	re 2F	8	3/39		
3351	ССТТТСТССТ			TGGGTTCGTC	N C N C C C C C C N
3321				ACCCAAGCAG	
3401				CAACGGTGGT	
	GTTTGCAGAC	CTTACCCAAC	GATGGTAGAG	GTTGCCACCA	CCAATGTGGA
3451				CCATCTCCCG GGTAGAGGGC	
	IGAIGGCCI		CCAGCAAAGI	GGTAGAGGGC	ACIGIIGCGA
		PstI	- ~		
3501	AAAAACACCC	TGTACCTGCA	GATGTCCTCC	CTGAAATCCG	AAGACTCAGC
	TTTTTGTGĢG	ACATGGACGT	CTACAGGAGG	GACTTTAGGC	TTCTGAGTCG
3551				CGACGAAAAC	
	ATACATGATG	ACGCGAGCAG	CACTTGCAAT	GCTGCTTTTG	CCAAAGCGAA
					ECORI
3601	ACTGGGGTCA	GGGTACCCTG	GTTACCGTTT	CAGCTTCCGG	AGAATTCGAG
3001				GTCGAAGGCC	
	AvaI				
3651	CCCTCCCCC	CCCACCCCCC	CCCTTCTCCT	TCCGGTGATT	ጥጥር እ ጥጥ እጥር እ
2021				AGGCCACTAA	
3701	AAAAATGGCA	מארככרדמאדמ	AGGGGGCTAT	GACCGAAAAT	CCCCATGAAA
3,01				CTGGCTTTTA	
3751				TTGATTCTGT	
	TGCGCGATGT	CAGACTGCGA	TTTCCGTTTG	AACTAAGACA	GCGATGACTA
		ClaI			
3801	тассетесте		тттсаттсст	GACGTTTCCG	СССТТССТАА
3001				CTGCAAAGGC	
3851				CTCTAATTCC	
	ACCATTACCA	CGATGACCAC	TAAAACGACC	GAGATTAAGG	GTTTACCGAG
3901	AAGTCGGTGA	CGGTGATAAT	TCACCTTTAA	TGAATAATTT	CCGTCAATAT
	TTCAGCCACT	GCCACTATTA	AGTGGAAATT	ACTTATTAAA	GGCAGTTATA
3951	TTACCTTCCC	TCCCTCAATC	GGTTGAATGT	CGCCCTTTTG	TCTTTGGCGC
JJJ2				GCGGGAAAAC	
4001				TGACAAAATA	
	ACCATTTGGT	ATACTTAAAA	GATAACTAAC	ACTGTTTTAT	TTGAATAAGG
4051	GTGGTGTCTT	TGCGTTTCTT	TTATATGTTG	CCACCTTTAT	GTATGTATTT
	CACCACAGAA	ACGCAAAGAA	AATATACAAC	GGTGGAAATA	CATACATAAA

Figure 2G		9	9/39		
rigui	6 20	_			HindIII
4101		CTAACATACT			
	AGATGCAAAC	GATTGTATGA	CGCATTATTC	CTCAGAACTA	TTCGAAGCTC
4151		CGAAAGCAAG			
	TTTAAGTGGA	GCTTTCGTTC		CTATGTTAAT	TTCCGAGGAA
			EcoRI		
4201		TTTTTTTGGA			
		AAAAAAACCT			
4251		TTGCGTTTCC			
		AACGCAAAGG			
4301		TTTCCTTAAA			
		AAAGGAATTT			
4351		TTGCTCTTAT			
		AACGAGAATA			
4401		ATTAGCGCAC			
		TAATCGCGTG			
4451		CCCGTCTAAT			
4501		GGGCAGATTA			
4501		CTATTTTCAT GATAAAAGTA			
4551		GATAAATAAA			
4221		CTATTTATTT			
4601		AAGACGCTCG			
		TTCTGCGAGC			
4651	TAGCTGGGTG				
	ATCGACCCAC	GTTTTATCGT	TGATTAGAAC	TAAATTCCGA	AGTTTTGGAG
4701	CCGCAAGTCG				
	GGCGTTCAGC	CCTCCAAGCG	ATTTTGCGGA	GCGCAAGAAT	CTTATGGCCT
4751	TAAGCCTTCT				
		TAAAGACTAA			
4801	ACGACGAAAA				
		ATTTTTGCCA			
4851	TTTAATACCC				
	AAATTATGGG	CAAGTACCTT	ACTGTTCCTT	TCTGTCGGCT	AATAACTAAC

Figu	re 2H	1	0/39		
4901	GTTTCTTCAT CAAAGAAGTA	GCTCGTAAAT CGAGCATTTA	TGGGATGGGA ACCCTACCCT	TATTATTTTT AAAAAAAA	CTTGTTCAGG GAACAAGTCC
4951	ATTTATCTAT TAAATAGATA	TGTTGATAAA ACAACTATTT	CAGGCGCGTT GTCCGCGCAA	CTGCATTAGO GACGTAATCG	TGAACACGTT ACTTGTGCAA
5001		GCCGTCTGGA GCGGCAGACCT			TCGGCACTTT AGCCGTGAAA
5051		GTTACTGGCT CAATGACCGA			TTACATGTTG AATGTACAAC
5101	GTGTTGTTAA CACAACAATT	ATATGGTGAT TATACCACTA			TGAGCGTTGG ACTCGCAACC
5151		GTAAGAATTT CATTCTTAAA			
5201		TATGATTCAG ATACTAAGTC			
5251		GTATTTCAAA CATAAAGTTT			
5301		ATTTGAAAAA TAAACTTTTT			
5351		GCATTTACAT CGTAAATGTA			
5401		AGTCTCTCAG TCAGAGAGTC			
5451	TCTTCTCAGC AGAAGAGTCG	GTCTTAATCT CAGAATTAGA	AAGCTATCGC TTCGATAGCG	TATGTTTTCA ATACAAAAGT	AGGATTCTAA TCCTAAGATT
5501		ATTAATAGCG TAATTATCGC			
5551		TTTATGTACT AAATACATGA			
5601		GTAATTAATT CATTAATTAA			
5651	CTTTTGCTCA GAAAACGAGT	AGTAATTGAA TCATTAACTT	ATGAATAATT TACTTATTAA	CGCCTCTGCG GCGGAGACGC	CGATTTCGTG GCTAAAGCAC
5701	ACTTGGTATT TGAACCATAA	CAAAGCAAAC GTTTCGTTTG	AGGTGAATCT TCCACTTAGA	GTTATTGTCT CAATAACAGA	CACCTGATGT GTGGACTACA

Figu	ure 2I	1	1/39		:
5751	TAAAGGTACA ATTTCCATGT			CGTTAAGCCT GCAATTCGGA	
5801				ATAATTTTGA TATTAAAACT	
5851				CCAAATAGTC GGTTTATCAG	
5901				ATATGATGAT TATACTACTA	-
5951				ATAATGTTAC TATTACAATG	
6001				ATAAGGGTTG TATTCCCAAC	
6051				TGTATTATCT ACATAATAGA	
6101		•		ATATTTTAGA TATAAAATCT	
6151				GACCAGATAT CTGGTCTATA	
6201				TTTAGATTTT AAATCTAAAA	
6251				GTGTTAATAC CACAATTATG	
6301				TTCGGTATTT AAGCCATAAA	
6351	TGTTTTAGGG ACAAAATCCC			GACTAATAGC CTGATTATCG	
6401	TATTGTCTGT ATAACAGACA			CAGGTCAGAA GTCCAGTCTT	
6451	TCTGTTGGCC AGACAACCGG			GGTCGTGTAA CCAGCACATT	
6501	TGCCAATGTA ACGGTTACAT			TGAGCGTCAA ACTCGCAGTT	
6551	TTTCTATGAG AAAGATACTC				

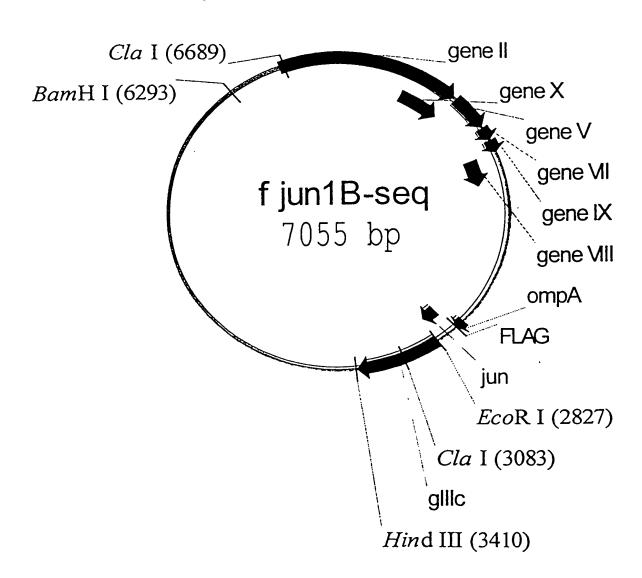
Figu	re 2J	1	2/39		
6601				TCTTCTACTC AGAAGATGAG	AGGCAAGTGA TCCGTTCACT
6651					TTGCGTGATG AACGCACTAC
6701					CACTTCTCAA GTGAAGAGTT
6751					GCCTCCTGTT CGGAGGACAA
6801					GTGCTCGTCA CACGAGCAGT
6851					CGGCGGGTGT GCCGCCCACA
6901				TGCCAGCGCC ACGGTCGCGG	
6951				CCACGTTCTC GGTGCAAGAG	
			BamHI		
7001		TAAATCGGGG	GATCCCTTTA	GGGTTCCGAT CCCAAGGCTA	
7051				GGGTGATGGT CCCACTACCA	
7101				CTTTGACGTT GAAACTGCAA	
7151				GGAACAACAC CCTTGTTGTG	TCACAACTAA AGTGTTGATT
7201	CTCGGCCTAT GAGCCGGATA				TCTGCTTACT AGACGAATGA
7251	GGTTAAAAAA CCAATTTTTT			TTAACGCGAA AATTGCGCTT	
7301	ACATTAACGT TGTAATTGCA			TATACAATCA ATATGTTAGT	
7351	GGGGCTTTTC CCCCGAAAAG				ATGCTAGTTT TACGATCAAA

Figure 2K 13/39

_		CIGI			
		~~~~			
7401		GTTCATCGAT			
	ATGCTAATGG	CAAGTAGCTA	AGAGAACAAA	CGAGGTCTGA	AAGTCCATTA
7451	GACCTGATAG	CCTTTGTAGA	CCTCTCAAAA	ATAGCTACCC	TCTCCGGCAT
	CTGGACTATC	GGAAACATCT	GGAGAGTTTT	TATCGATGGG	AGAGGCCGTA
7501	GAATTTATCA	GCTAGAACGG	TTGAATATCA	TATTGACGGT	GATTTGACTG
	CTTAAATAGT	CGATCTTGCC	AACTTATAGT	ATAACTGCCA	CTAAACTGAC
7551	TCTCCGGCCT	TTCTCACCCG	TTTGAATCTT	TGCCTACTCA	TTACTCCGGC
	AGAGGCCGGA	AAGAGTGGGC	AAACTTAGAA	ACGGATGAGT	AATGAGGCCG
7601	ATTGCATTTA	AAATATATGA	GGGTTCTAAA	AATTTTTATC	CCTGCGTTGA
	TAACGTAAAT	TTTATATACT	CCCAAGATTT	TTAAAAATAG	GGACGCAACT
7651	AATTAAGGCT	TCACCAGCAA	AAGTATTACA	GGGTCATAAT	GTTTTTGGTA
	TTAATTCCGA	AGTGGTCGTT	TTCATAATGT	CCCAGTATTA	CAAAAACCAT
7701	CAACCGATTT	AGCTTTATGC	TCTGAGGCTT	TATTGCTTAA	TTTTGCTAAC
	GTTGGCTAAA	TCGAAATACG	AGACTCCGAA	ATAACGAATT	AAAACGATTG
7751	TCTCTGCCTT	GCTTGTACGA	TTTATTGGAT	GTT	
	AGAGACGGAA	CGAACATGCT	AAATAACCTA	CAA	

14/39

Figure 3A



# Figure 3B

## 15/39

1	AACGCTACTA TTGCGATGAT	CCATTAGTAG GGTAATCATC			CTCGCGCCCC GAGCGCGGGG
51		ATAGCTAAAC TATCGATTTG			
101		TAAATCTACT ATTTAGATGA			
151		CTTCCAGACA GAAGGTCTGT			
201		CACCAGATTC GTGGTCTAAG			
251	TGACCTCTTA	TCAAAAGGAG AGTTTTCCTC	CAATTAAAGG	TACTGTCTAA	TCCTGACCTG
301	TTGGAATTTG	CTTCCGGTCT GAAGGCCAGA	GGTTCGCTTT	GAGGCTCGAA	TTGAAACGCG
351	ATATTTGAAG	TCTTTCGGGC	TTCCTCTTAA	TCTTTTTGAT	GCAATTCGCT
401	TTGCTTCTGA	AGAAAGCCCG CTATAATAGA	CAGGGTAAAG	ACCTGATTTT	TGATTTATGG
451	TCATTCTCGT	GATATTATCT TTTCTGAACT	GTTTAAAGCA	TTTGAGGGGG	ATTCAATGAA
501	TATTTATGAC	AAAGACTTGA GATTCCGCAG	TATTGGACGC	TATCCAGTCT	AAACATTTTA
551		CTAAGGCGTC CTCTGGCAAA			
601		GAGACCGTTT GTCGTCTGGT			
	CCAAAGATAG	CAGCAGACCA	ATTACTCCCA	ATACTATCAC	AACGAGAATG
		TTAAGGAAAA	CCGCAATACA	TAGACGTAAT	CAACTCACAC
701	GTATTCCTAA CATAAGGATT	ATCTCAATTG TAGAGTTAAC			
751	CCGTTAGTTC GGCAATCAAG	GTTTTATTAA CAAAATAATT			
801	GTATAATGAG CATATTACTC	CCAGTTCTTA GGTCAAGAAT			

Figure	3C	10	5/39		
851		AAACCGTCTC TTTGGCAGAG			
901	CTCGTCAGGG GAGCAGTCCC	CAAGCCTTAT GTTCGGAATA			
951		AATATCCGGT TTATAGGCCA			
1001		GCGCCTGGTC CGCGGACCAG			
1051		CGGTTCTCTT GCCAAGAGAA			CGTTCCGGCT GCAAGGCCGA
1101		GAGCAGGTCG CTCGTCCAGC			CAGGCGATGA GTCCGCTACT
1151		CGTTGTACTT GCAACATGAA		TTGGTATAAT AACCATATTA	
1201	•	TGTTTTAGTG ACAAAATCAC		CCTCTTTCGT GGAGAAAGCA	
1251		GTGGCATTAC CACCGTAATG			
1301		CTTTAGTCCT GAAATCAGGA			
1351		TCTTTCGCTG AGAAAGCGAC			
1401		GCAAGCCTCA CGTTCGGAGT			
1451					TGTTTAAGAA ACAAATTCTT
1501	ATTCACCTCG TAAGTGGAGC				CGAGACGTTN GCTCTGCAAN
1551		CAACTTTCAC GTTGAAAGTG			ACCGGGCGTA TGGCCCGCAT
1601					AAATGGAGAA TTTACCTCTT
1651					CATCGTAAAG GTAGCATTTC

Figure 3D		. 1	7/39		
1701		GGCATTTCAG CCGTAAAGTC	TCAGTTGCTC		
1751	GTTCAGCTGG CAAGTCGACC	ATATTACGGC TATAATGCCG	CTTTTTAAAG GAAAAATTTC		AAAATAAGCA TTTTATTCGT
1801		CCGGCCTTTA GGCCGGAAAT			
1851		CCGTATGGCA GGCATACCGT			
1901		CTTGTTACAC GAACAATGTG			
1951	ATCGCTCTGG TAGCGAGACC	AGTGAATACC TCACTTATGG		CCGGCAGTTT GGCCGTCAAA	
2001		TGTGGCGTGT ACACCGCACA			
2051	•	AGAATATGTT TCTTATACAA			
2101		GATTTAAACG CTAAATTTGC			
2151		GGGCAAATAT CCCGTTTATA			
2201	CTGGCGATTC GACCGCTAAG	AGGTTCATCA TCCAAGTAGT		GATGGCTTCC CTACCGAAGG	
2251		GAATTACAAC CTTAATGTTG			
2301		AGGCAGTTAT TCCGTCAATA			
2351		GCTCAGGCTC CGAGTCCGAG			
2401		TTCCTGACAG AAGGACTGTC			
2451		GTGAGTTAGC CACTCAATCG			
2501		GGCTCGTATG CCGAGCATAC			ATAACAATTT TATTGTTAAA

Figure	3E	13	8/39		
2551	CACACAGGAA			GAATTTCTAG	ATAACGAGGG
	GTGTGTCCTT	TGTCGATACT	GGTACTAATG	CTTAAAGATC	TATTGCTCCC
2601	CAAAAAATGA	AAAAGACAGC	TATCGCGATT	GCAGTGGCAC	TGGCTGGTTT
	GTTTTTTACT	TTTTCTGTCG	ATAGCGCTAA	CGTCACCGTG	ACCGACCAAA
2651				TGTCGACGCC	
				ACAGCTGCGG	
2701				TGAAAGCGCA	
				ACTTTCGCGT	
2751				CAGGTGGCAC	
	GACCGCAGGT	GCCGGTTGTA	CGAGTCCCTT	GTCCACCGTG	TCGAATTTGT
			EcoR	[ 	
2801	GAAAGTCATG	AACCACGGTG	GTGCCGAATT	CAATGCTGGC	GGCGGCTCTG
				GTTACGACCG	
2851	GTGGTGGTTC	TGGTGGCGGC	TCTGAGGGTG	GTGGCTCTGA	GGGTGGCGGT
	CACCACCAAG	ACCACCGCCG	AGACTCCCAC	CACCGAGACT	CCCACCGCCA
2901	TCTGAGGGTG	GCGGCTCTGA	GGGAGGCGGT	TCCGGTGGTG	GCTCTGGTTC
				AGGCCACCAC	
2951				CGCTAATAAG	
				GCGATTATTC	
3001				CTGACGCTAA GACTGCGATT	
	GGCTTTTACG	GCIACITIIG	CGCGATGTCA	ClaI	ICCGIIIGAA
				CIAI	
3051	GATTCTGTCG	CTACTGATTA	CGGTGCTGCT	ATCGATGGTT	TCATTGGTGA
	CTAAGACAGC	GATGACTAAT	GCCACGACGA	TAGCTACCAA	AGTAACCACT
3101	CGTTTCCGGC	CTTGCTAATG	GTAATGGTGC	TACTGGTGAT	TTTGCTGGCT
	GCAAAGGCCG	GAACGATTAC	CATTACCACG	ATGACCACTA	AAACGACCGA
3151	CTAATTCCCA	AATGGCTCAA	GTCGGTGACG	GTGATAATTC	ACCTTTAATG
	GATTAAGGGT	TTACCGAGTT	CAGCCACTGC	CACTATTAAG	TGGAAATTAC
3201	AATAATTTCC				
				GGAGTTAGCC	
3251	CCCTTTTGTC				
				ACTTAAAAGA	
3301	ACAAAATAAA				
	TGTTTTATTT	GAATAAGGCA	CCACAGAAAC	GCAAAGAAAA	TATACAACGG

1

#### Figure 3F 19/39 3351 ACCTTTATGT ATGTATTTTC TACGTTTGCT AACATACTGC GTAATAAGGA TGGAAATACA TACATAAAAG ATGCAAACGA TTGTATGACG CATTATTCCT HindIII ~~~~~~ GTCTTGATAA GCTTCGAGAA ATTCACCTCG AAAGCAAGCT GATAAACCGA 3401 CAGAACTATT CGAAGCTCTT TAAGTGGAGC TTTCGTTCGA CTATTTGGCT TACAATTAAA GGCTCCTTTT GGAGCCTTTT TTTTTGGAGA ATTAATTCAA 3451 ATGTTAATTT CCGAGGAAAA CCTCGGAAAA AAAAACCTCT TAATTAAGTT TCATGCCAGT TCTTTTGGGT ATTCCGTTAT TATTGCGTTT CCTCGGTTTC 3501 AGTACGGTCA AGAAAACCCA TAAGGCAATA ATAACGCAAA GGAGCCAAAG 3551 CTTCTGGTAA CTTTGTTCGG CTATCTGCTT ACTTTCCTTA AAAAGGGCTT GAAGACCATT GAAACAAGCC GATAGACGAA TGAAAGGAAT TTTTCCCGAA 3601 CGGTAAGATA GCTATTGCTA TTTCATTGTT TCTTGCTCTT ATTATTGGGC GCCATTCTAT CGATAACGAT AAAGTAACAA AGAACGAGAA TAATAACCCG TTAACTCAAT TCTTGTGGGT TATCTCTCTG ATATTAGCGC ACAATTACCC 3651 AATTGAGTTA AGAACACCCA ATAGAGAGAC TATAATCGCG TGTTAATGGG 3701 TCTGATTTTG TTCAGGGCGT TCAGTTAATT CTCCCGTCTA ATGCGCTTCC AGACTAAAAC AAGTCCCGCA AGTCAATTAA GAGGGCAGAT TACGCGAAGG CTGTTTTTAT GTTATTCTCT CTGTAAAGGC TGCTATTTTC ATTTTTGACG GACAAAAATA CAATAAGAGA GACATTTCCG ACGATAAAAG TAAAAACTGC 3801 TTAAACAAAA AATCGTTTCT TATTTGGATT GGGATAAATA AATATGGCTG AATTTGTTTT TTAGCAAAGA ATAAACCTAA CCCTATTTAT TTATACCGAC TTTATTTGT AACTGGCAAA TTAGGCTCTG GAAAGACGCT CGTTAGCGTT 3851 AAATAAAACA TTGACCGTTT AATCCGAGAC CTTTCTGCGA GCAATCGCAA GGTAAGATTC AGGATAAAAT TGTAGCTGGG TGCAAAATAG CAACTAATCT 3901 CCATTCTAAG TCCTATTTTA ACATCGACCC ACGTTTTATC GTTGATTAGA TGATTTAAGG CTTCAAAACC TCCCGCAAGT CGGGAGGTTC GCTAAAACGC 3951 ACTAAATTCC GAAGTTTTGG AGGGCGTTCA GCCCTCCAAG CGATTTTGCG CTCGCGTTCT TAGAATACCG GATAAGCCTT CTATTTCTGA TTTGCTTGCT 4001 GAGCGCAAGA ATCTTATGGC CTATTCGGAA GATAAAGACT AAACGAACGA ATTGGTCGTG GTAATGATTC CTACGACGAA AATAAAAACG GTTTGCTTGT 4051 TAACCAGCAC CATTACTAAG GATGCTGCTT TTATTTTTGC CAAACGAACA TCTTGATGAA TGCGGTACTT GGTTTAATAC CCGTTCATGG AATGACAAGG

AGAACTACTT ACGCCATGAA CCAAATTATG GGCAAGTACC TTACTGTTCC

4101

Figure 3G		20	0/39		
4151	AAAGACAGCC	GATTATTGAT	TGGTTTCTTC	ATGCTCGTAA	ATTGGGATGG
4131				TACGAGCATT	
4201	GATATTATTT	TTCTTGTTCA	GGATTTATCT	ATTGTTGATA	AACAGGCGCG
	СТАТААТААА	AAGAACAAGT	CCTAAATAGA	TAACAACTAT	TTGTCCGCGC
4251	TTCTGCATTA	GCTGAACACG	TTGTTTATTG	TCGCCGTCTG	GACAGAATTA
	AAGACGTAAT	CGACTTGTGC	AACAAATAAC	AGCGGCAGAC	CTGTCTTAAT
4301				TTGTTACTGG	
				AACAATGACC	
4351				AAATATGGTG	- <del></del> · ·
				TTTATACCAC	
4401				TGGTAAGAAT	
				ACCATTCTTA	
4451			=	ATTATGATTC	<del>-</del>
				TAATACTAAG	
4501				CGGTATTTCA	
				GCCATAAAGT	
4551				ATATTTGAAA	
4.507				TATAAACTTT	
4601				CAGCATTTAC GTCGTAAATG	
4651				GTAGTCTCTC	
4031				CATCAGAGAG	
4701				GCGTCTTAAT	
4/01	·			CGCAGAATTA	
	AAAACIAIII	AAGIGAIAAC	TOROMOROT	COCAGATIA	GATICGATAG
4751	GCTATGTTTT	CAAGGATTCT	AAGGGAAAAT	TAATTAATAG	CGACGATTTA
	CGATACAAAA	GTTCCTAAGA	TTCCCTTTTA	ATTAATTATC	GCTGCTAAAT
4801	CAGAAGCAAG	GTTATTCCAT	CACATATATT	GATTTATGTA	CTGTTTCAAT
				CTAAATACAT	
4851	TAAAAAAGGT	AATTCAAATG	AAATTGTTAA	ATGTAATTAA	TTTTGTTTTC
				TACATTAATT	
4901	TTGATGTTTG				
				GTTCATTAAC	
4951	TTCGCCTCTG				
	AAGCGGAGAC	GCGCTAAAGC	ACTGAACCAT	AAGTTTCGTT	TGTCCACTTA

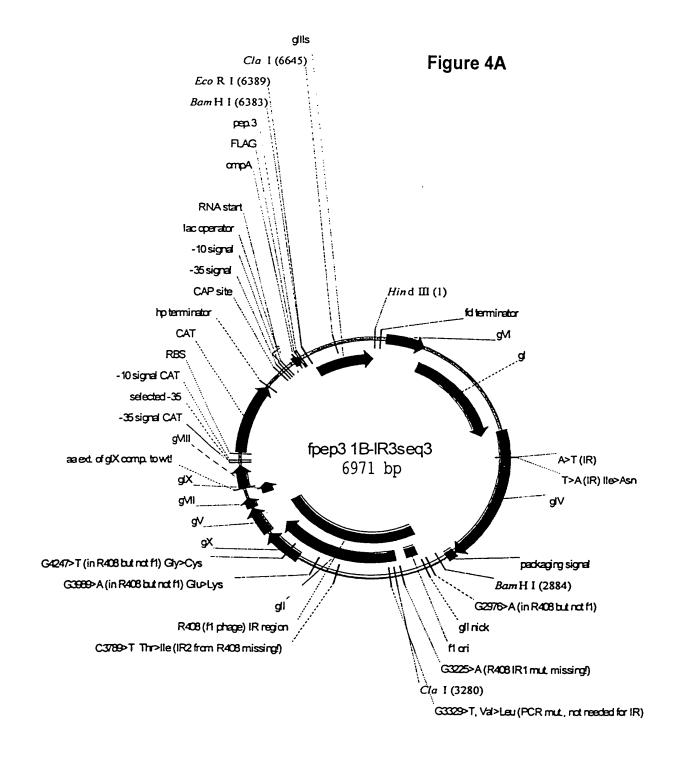
Figur	e 3H	· · · · · · · · · · · · · · · · · · ·	1/39		
5001		CTCACCTGAT	GTTAAAGGTA	CAGTGACTGT	
	GACAATAACA	GAGTGGACTA	CAATTTCCAT	GTCACTGACA	TATAAGGAGA
5051				TTTATCTCTG AAATAGAGAC	
	CTGCAATTCG	GACTTTTAAA			
5101		GATATGGTTG		TTCCATAATT AAGGTATTAA	CAGAAATATA
	ATTATTAMA				
5151	ACCCAAATAG	TCAGGATTAT AGTCCTAATA	ATTGATGAAT TAACTACTTA	TGCCATCATC ACGGTAGTAG	TGATATTCAG ACTATAAGTC
	1666111A1C	AGICCIMIN			
5201		ATAATTCCGC	TCCTTCTGGT	GGTTTCTTTG CCAAAGAAAC	TTCCGCAAAA
	CITATACTAC	TATTAAGGCG			72100001111
5251		ACTCAAACAT	TTAAAATTAA	TAACGTTCGC ATTGCAAGCG	GCAAAGGATT
	ACTATTACAA	IGAGIIIGIA	AAIIIIAAII	ATTGCAAGCG	CGITICCIAA
5301		TGTAGAATTG	TTTGTTAAAT	CTAATACATC	TAAATCCTCA
	ATTATTCCCA	ACATCTTAAC	AAACAATTTA	GATTATGTAG	ATTTAGGAGT
5351		CTGTTGATGG	TTCTAACTTA		GCGCCCTAA
	TTACATAATA	GACAACTACC	AAGATTGAAT	AATCATCAAT	CGCGGGGATT
5401		GATAACCTTC			GATTTGCCAA
	TCTATAAAAT	CTATTGGAAG	GCGTTAAAGA	AAGATGACAA	CTAAACGGTT
5451		ATTGATTGAA			GCAAGGTGAT
	GACTGGTCTA	TAACTAACTT	CCTAATTAAA	AGCTCCAAGT	CGTTCCACTA
5501	GCTTTAGATT			CAGCGCGGCA	
	CGAAATCTAA	AAAGGAAACG	ACGACCGAGA	GTCGCGCCGT	GACAACGACC
5551				TTTATCTTCT	
	ACCACAATTA	TGACTGGCAG	ATTGGAGACA	AAATAGAAGA	CGCCCACCAA
5601					TCGCGCATTA
	GCAAGCCATA	AAAATTGCCG	CTACAAAATC	CCGATAGTCA	AGCGCGTAAT
5651					TTCTTACGCT
	TTCTGATTAT	CGGTAAGTTT	TTATAACAGA	CACGGAGCAT	AAGAATGCGA
5701					CCTTTTATTA
	AAGTCCAGTC	TTCCCAAGAT	AAAGACAACC	GGTCTTACAG	GGAAAATAAT
5751				TAAATAATCC	
	GACCAGCACA	TTGACCACTT	AGACGGTTAC	ATTTATTAGG	TAAAGTCTGC
5801					CCGTTGCAAT
		TTTTACAACC	ATAAAGATAC	TCACAAAAAG	GGCAACGTTA

Figure	: 3 <b>I</b>	2:	2/39		
5851		AATATTGTTT TTATAACAAA			
5901		TCAGGCAAGT AGTCCGTTCA			
5951		ATTTGCGTGA TAAACGCACT			
6001		AACACTTCTC TTGTGAAGAG			
6051		CGGCCTCCTG GCCGGAGGAC			
6101		ACGTGCTCGT TGCACGAGCA			
6151		CGCGGCGGGT GCGCCGCCCA			
6201		CCCTAGCGCC GGGATCGCGG			
					BamHI
6251		TCCGGCTTTC AGGCCGAAAG			
6301					
0301		ATTTAGTGCT TAAATCACGA			
6351	ATCCCAAGGC TTGGGTGATG		AATGCCGTGG TGGGCCATCG	AGCTGGAGGT CCCTGATAGA	TTTTGAACTA CGGTTTTTCG
	ATCCCAAGGC  TTGGGTGATG AACCCACTAC  CCCTTTGACG	TAAATCACGA GTTCACGTAG	AATGCCGTGG TGGGCCATCG ACCCGGTAGC CGTTCTTTAA	AGCTGGAGGT CCCTGATAGA GGGACTATCT TAGTGGACTC	TTTTGAACTA CGGTTTTTCG GCCAAAAAGC TTGTTCCAAA
6351 6401	ATCCCAAGGC  TTGGGTGATG AACCCACTAC  CCCTTTGACG GGGAAACTGC  CTGGAACAAC	TAAATCACGA GTTCACGTAG CAAGTGCATC TTGGAGTCCA	AATGCCGTGG TGGGCCATCG ACCCGGTAGC CGTTCTTTAA GCAAGAAATT AACTCGGCCT	AGCTGGAGGT CCCTGATAGA GGGACTATCT TAGTGGACTC ATCACCTGAG ATTCTTTTGA	TTTTGAACTA CGGTTTTTCG GCCAAAAAGC TTGTTCCAAA AACAAGGTTT TTTATAAGGA
6351 6401 6451	ATCCCAAGGC  TTGGGTGATG AACCCACTAC  CCCTTTGACG GGGAAACTGC  CTGGAACAAC GACCTTGTTG  TTTTTGTCAT	TAAATCACGA GTTCACGTAG CAAGTGCATC TTGGAGTCCA AACCTCAGGT ACTCACAACT	AATGCCGTGG TGGGCCATCG ACCCGGTAGC CGTTCTTTAA GCAAGAAATT AACTCGGCCT TTGAGCCGGA CTGGTTAAAA	AGCTGGAGGT CCCTGATAGA GGGACTATCT TAGTGGACTC ATCACCTGAG ATTCTTTTGA TAAGAAAACT AATAAGCTGA	TTTTGAACTA  CGGTTTTTCG GCCAAAAAGC  TTGTTCCAAA AACAAGGTTT  TTTATAAGGA AAATATTCCT  TTTAACAAAT
6351 6401 6451 6501	ATCCCAAGGC  TTGGGTGATG AACCCACTAC  CCCTTTGACG GGGAAACTGC  CTGGAACAAC GACCTTGTTG  TTTTTGTCAT AAAAACAGTA  ATTTAACGCG	TAAATCACGA GTTCACGTAG CAAGTGCATC TTGGAGTCCA AACCTCAGGT ACTCACAACT TGAGTGTTGA TTTCTGCTTA	AATGCCGTGG TGGGCCATCG ACCCGGTAGC CGTTCTTTAA GCAAGAAATT AACTCGGCCT TTGAGCCGGA CTGGTTAAAA GACCAATTTT	AGCTGGAGGT  CCCTGATAGA GGGACTATCT  TAGTGGACTC ATCACCTGAG  ATTCTTTTGA TAAGAAAACT  AATAAGCTGA TTATTCGACT  GTTTACAATT	TTTTGAACTA CGGTTTTTCG GCCAAAAAGC TTGTTCCAAA AACAAGGTTT TTTATAAGGA AAATATTCCT TTTAACAAAT AAATTGTTTA

23/39 Figure 3J ClaI 6651 CATATGATTG ACATGCTAGT TTTACGATTA CCGTTCATCG ATTCTCTTGT GTATACTAAC TGTACGATCA AAATGCTAAT GGCAAGTAGC TAAGAGAACA TTGCTCCAGA CTTTCAGGTA ATGACCTGAT AGCCTTTGTA GACCTCTCAA 6701 AACGAGGTCT GAAAGTCCAT TACTGGACTA TCGGAAACAT CTGGAGAGTT 6751 AAATAGCTAC CCTCTCCGGC ATGAATTTAT CAGCTAGAAC GGTTGAATAT TTTATCGATG GGAGAGGCCG TACTTAAATA GTCGATCTTG CCAACTTATA 6801 CATATTGACG GTGATTTGAC TGTCTCCGGC CTTTCTCACC CGTTTGAATC GTATAACTGC CACTAAACTG ACAGAGGCCG GAAAGAGTGG GCAAACTTAG TTTGCCTACT CATTACTCCG GCATTGCATT TAAAATATAT GAGGGTTCTA 6851 AAACGGATGA GTAATGAGGC CGTAACGTAA ATTTTATATA CTCCCAAGAT 6901 AAAATTTTTA TCCCTGCGTT GAAATTAAGG CTTCACCAGC AAAAGTATTA TTTTAAAAAT AGGGACGCAA CTTTAATTCC GAAGTGGTCG TTTTCATAAT CAGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT GCTCTGAGGC 6951 GTCCCAGTAT TACAAAAACC ATGTTGGCTA AATCGAAATA CGAGACTCCG TTTATTGCTT AATTTTGCTA ACTCTCTGCC TTGCTTGTAC GATTTATTGG 7001 AAATAACGAA TTAAAACGAT TGAGAGACGG AACGAACATG CTAAATAACC 7051 ATGTT

TACAA

#### 24/39



## 25/39

		2	3133		
Figure 4B	HindIII				
9	~~~~				
1	AGCTTCGAGA	AATTCACCTC	GAAAGCAAGC	TGATAAACCG	ATACAATTAA
					TATGTTAATT
					IMIGITATI
51	AGGCTCCTTT	теслессттт	тттттссас	ስ ስጥጥስ ስጥጥር <b>አ</b>	ATCATGCCAG
31					TAGTACGGTC
	ICCGAGGAAA	ACCICGGAAA	AAAAAACCIC	TTAATTAAGT	TAGTACGGTC
101	TT OTT TT OT	ma mma camma		maamaaamm.	
101					CCTTCTGGTA
	AAGAAAACCC	ATAAGGCAAT	AATAACGCAA	AGGAGCCAAA	GGAAGACCAT
151				AAAAAGGGCT	_
	TGAAACAAGC	CGATAGACGA	ATGAAAGGAA	TTTTTCCCGA	AGCCATTCTA
201	AGCTATTGCT	ATTTCATTGT	TTCTTGCTCT	TATTATTGGG	CTTAACTCAA
	TCGATAACGA	TAAAGTAACA	AAGAACGAGA	ATAATAACCC	GAATTGAGTT
251	TTCTTGTGGG	TTATCTCTCT	GATATTAGCG	CACAATTACC	CTCTGATTTT
				GTGTTAATGG	
				01011781100	ONONCIAMA
301	GTTCAGGGGG	ттсасттаат	тстсссстст	AATGCGCTTC	CCTCTTTTT
301				TTACGCGAAG	
	CAAGICCCGC	AAGICAAIIA	AGAGGGCAGA	TIACGCGAAG	GGACAAAAAI
351	TOTAL TOTAL	TOTOTO NA A CO		C) mmmmma a	
321				CATTTTTGAC	
	ACAATAAGAG	AGACATTTCC	GACGATAAAA	GTAAAAACTG	CAATTTGTTT
401				AAATATGGCT	
	TTTAGCAAAG	AATAAACCTA	ACCCTATTTA	TTTATACCGA	CAAATAAAAC
451				TCGTTAGCGT	
	ATTGACCGTT	TAATCCGAGA	CCTTTCTGCG	AGCAATCGCA	ACCATTCTAA
501	CAGGATAAAA	TTGTAGCTGG	GTGCAAAATA	GCAACTAATC	TTGATTTAAG
	GTCCTATTTT	AACATCGACC	CACGTTTTAT	CGTTGATTAG	AACTAAATTC
551	GCTTCAAAAC	CTCCCGCAAG	TCGGGAGGTT	CGCTAAAACG	CCTCGCGTTC
				GCGATTTTGC	
					00.100001110
601	TTAGAATACC	GGATAAGCCT	TС $T$ А $T$ $T$ $T$ С $T$ С	ΔΤΤΤΟΟΤΤΟΟ	TATTCCTCCT
001				TAAACGAACG	
	ARICITATOG	CCIAIICGGA	AGATAAAGAC	TAAACGAACG	ATAACCAGCA
651	CCTNNTCNTT	CCTACCACCA	33773333 <i>C</i>	CCTTTTCCTTC	
931	GGTAATGATT				
	CCATTACTAA	GGATGCTGCT	TTTATTTTTG	CCAAACGAAC	AAGAACTACT
701	ATGCGGTACT				
	TACGCCATGA	ACCAAATTAT	GGGCAAGTAC	CTTACTGTTC	CTTTCTGTCG
	CGATTATTGA				
	GCTAATAACT	AACCAAAGAA	GTACGAGCAT	TTAACCCTAC	CCTATAATAA

Figure	e 4C	20	6/39		
801				AAACAGGCGC TTTGTCCGCG	_
851				GGACAGAATT CCTGTCTTAA	
901				GCTCAAAAAT CGAGTTTTTA	
951				GATTCTCAAT CTAAGAGTTA	
1001				TTTATATAAC AAATATATTG	
1051				CAGGTGTTTA GTCCACAAAT	
1101				AAACCATTAA TTTGGTAATT	
1151				AAAGTTTTCT TTTCAAAAGA	
1201				CATATAGTTA GTATATCAAT	
1251				CAGACCTATG GTCTGGATAC	
1301				TCTAAGCTAT AGATTCGATA	
1351				GCGACGATTT CGCTGCTAAA	
1401				ACTGTTTCAA TGACAAAGTT	
1451				ATTTTGTTTT TAAAACAAAA	
1501				GAAATGAATA CTTTACTTAT	
1551				AACAGGTGAA TTGTCCACTT	
1601				TATATTCCTC ATATAAGGAG	

Figure	4D	2	7/39		
1651					CTAATAATTT GATTATTAAA
1701					AACCCAAATA TTGGGTTTAT
1751					GGAATATGAT CCTTATACTA
1801				GTTCCGCAAA CAAGGCGTTT	
1851	i i			CGCAAAGGAT GCGTTTCCTA	
1901				CTAAATCCTC GATTTAGGAG	
1951				AGCGCCCCTA TCGCGGGGAT	<del>-</del>
2001				TGATTTGCCA ACTAAACGGT	
2051				AGCAAGGTGA TCGTTCCACT	
2101				ACTGTTGCTG TGACAACGAC	
2151				TGCGGGTGGT ACGCCCACCA	
2201				TTCGCGCATT AAGCGCGTAA	
2251				ATTCTTACGC TAAGAATGCG	TTTCAGGTCA AAAGTCCAGT
2301	GAAGGGTTCT CTTCCCAAGA			CCCTTTTATT GGGAAAATAA	
2351	TAACTGGTGA ATTGACCACT			CATTTCAGAC GTAAAGTCTG	
2401	CAAAATGTTG GTTTTACAAC				
2451	TAATATTGTT ATTATAACAA			CGATAGTTTG GCTATCAAAC	

Figure	4É	,	20/20		
2501	CTC1 CCC1 1 C	_	28/39		
2501	CICAGGCAAG	TGATGTTAT	r actaatcaa	A GAAGTATTGC	GACAACGGTT
					CTGTTGCCAA
2551	AATTTGCGTG	ATGGTCAGAG	C TCTTTTGCTC	GGTGGCCTCA	CTGATTACAA
	TTAAACGCAC	TACCAGTCT	G AGAAAACGAG	CCACCGGAGT	GACTAATGTT
2601	AAACACTTCT	CAAGATTCTC	G GTGTGCCGTT	CCTGTCTAAA	ATCCCTTTAA
	TTTGTGAAGA	GTTCTAAGAC	CACACGGCAA	GGACAGATTT	TAGGGAAATT
2651	TCGGCCTCCT	GTTTAGCTCC	CGTTCTGATT	' CTAACGAGGA	AAGCACGTTG
	AGCCGGAGGA	CAAATCGAGG	GCAAGACTAA	GATTGCTCCT	TTCGTGCAAC
					1100100.11.0
2701	TACGTGCTCG	TCAAAGCAAC	CATAGTACGC	GCCCTGTAGC	GGCGCATTAA
	ATGCACGAGC	AGTTTCGTTG	GTATCATGCG	CGGGACATCG	CCGCGTAATT
2751	GCGCGGCGGG	TGTGGTGGTT	' ACGCGCAGCG	TGACCGCTAC	ACTTGCCAGC
	CGCGCCGCCC	ACACCACCAA	TGCGCGTCGC	ACTGGCGATG	TGAACGGTCG
2801	GCCCTAGCGC	CCGCTCCTTT	CGCTTTCTTC	CCTTCCTTTC	TCGCCACGTT
	CGGGATCGCG	GGCGAGGAAA	GCGAAAGAAG	GGAAGGAAAG	AGCGGTGCAA
		•			
				BamHI	
2851	CTCCGGCTTT	CCCCGTCAAG	CTCTAAATCG	GGGGATCCCT	TTAGGGTTCC
				CCCCTAGGGA	
2901	GATTTAGTGC	TTTACGGCAC	CTCGACCTCC	AAAAACTTGA	TTTGGGTGAT
	CTAAATCACG	AAATGCCGTG	GAGCTGGAGG	TTTTTGAACT	AAACCCACTA
2951				ACGGTTTTTC	
	CCAAGTGCAT	CACCCGGTAG	CGGGATTATC	TGCCAAAAAG	CGGGAAACTG
3001	GTTGGAGTCC	ACGTTCTTTA	ΔΤΔΩΤΩΩΔΩΤ	CTTGTTCCAA	A CTCC
				GAACAAGGTT	
		200.210.2211	michelon	OAACAAGGII	IGACCIIGII
3051	CACTCAACCC	TATCTCGGTC	TATTCTTTTG	ATTTATAAGG	GATTTTGCCG
	GTGAGTTGGG	ATAGAGCCAG	ATAAGAAAAC	TAAATATTCC	CTAAAACGGC
3101	ATTTCGGCCT	ATTGGTTAAA	AAATGAGCTG	ATTTAACAAA	AATTTAACGC
	TAAAGCCGGA	TAACCAATTT	TTTACTCGAC	TAAATTGTTT	TTAAATTGCG
3151	GAATTTTAAC				
	CTTAAAATTG	TTTATAATT	GCAAATGTTA	AATTTATAAA	CGAATATGTT
3201				CAACCGGGGT	
	AGAAGGACAA	AAACCCCGAA	AAGACTAATA	GTTGGCCCCA	TGTATACTAA
			Cla	I -~~	
3251	GACATGCTAG	TTTTACGATT	ACCGTTCATC	GATTCTCTTC	тттсстссас
	CTGTACGATC .	AAAATGCTAA	TGGCAAGTAG	CTAAGAGAAC	AAACGAGGTC

# **Figure 4F** 29/39

3301	ACTCTCAGGC	AATGACCTGA	TAGCCTTTTT	AGACCTCTCA	AAAATAGCTA TTTTATCGAT
3351			TCAGCTAGAA		
3331					TCATATTGAT AGTATAACTA
3401					CTTTACCTAC
	CCACTAAACT	GACAGAGGCC	GGAAAGAGTG	GGCAAACTTA	GAAATGGATG
3451					AAAAATTTTT
	TGTAATGAGT	CCGTAACGTA	AATTTTATAT	ACTCCCAAGA	AAAAATTTTT
3501					ACAGGGTCAT
	TAGGAACGCA	ACTTTATTTC	CGAAGAGGGC	GTTTTCATAA	TGTCCCAGTA
3551			TTTAGCTTTA		
					GAAATAACGA
3601			CTTGCCTGTA		
			GAACGGACAT		
3651			GATGCCACCT		
			CTACGGTGGA		
3701			TATTGACCAT		
			ATAACTGGTA		
3751			CGCAGAATTG		
			GCGTCTTAAC		
3801			ACTTTAGTTG		
			TGAAATCAAC		
3851			ATTAAGCTCT		
			TAATTCGAGA		
3901			TAAAGGTACT		
			ATTTCCATGA		
3951	AGTTTGCTTC				
			GCGAAACTTC		
4001	TTGAAGTCTT				
			AGAATTAGAA		
4051	TTCTGACTAT				
	AAGACTGATA				
4101	TCTCGTTTTC	TGAACTGTTT	AAAGCATTTG	AGGGGGATTC	AATGAATATT
	AGAGCAAAAG	ACTTGACAAA	TTTCGTAAAC	TCCCCCTAAG	TTACTTATAA

Figure 4G	30/39
-----------	-------

4151	татсассатт	ССССАСТАТТ	GGACGCTATC	САСТСТАЛАС	እ <b>ጥጥጥ</b> እ
4131			CCTGCGATAG		
					II D D TI ON I A
4201	TACCCCCTCT	GGCAAAACTT	CTTTTGCAAA	_	
	ATGGGGGAGA	CCGTTTTGAA	GAAAACGTTT	TCGGAGAGCG	ATAAAAACAA
4253	TTT TCCTCC	TCTCCT > > > C	CACCCTTA TC	A TIA CITICOTTO C	
4251		AGACCATTTG	GAGGGTTATG		AGAATGATAC
	AAATAGCAGC	AGACCATITG	CICCLATIAC	INTERCARCG	AGAATGATAC
4301	CCTCGTAATT	CCTTTTGGCG	TTATGTATCT	GCATTAGTTG	AATGTGGTAT
	GGAGCATTAA	GGAAAACCGC	AATACATAGA	CGTAATCAAC	TTACACCATA
4351			ATCTTTCTAC		
	AGGATTTAGA	GTTGACTACT	TAGAAAGATG	GACATTATTA	CAACAAGGCA
4401	TAGTTCGTTT	TATTAACGTA	GATTTTTCTT	CCCAACGTCC	тсастсстат
			CTAAAAAGAA		
4451			CGCATAAGGT		
	TTACTCGGTC	AAGAATTTTA	GCGTATTCCA	TTAAGTGTTA	CTAATTTCAA
4501	C		GCAATTCACT	A CCCCCMMCMC	amammamaa
4501			CGTTAAGTGA		
	CITIAATITG	GIAGAGIICG	CGITAAGIGA	IGGGCAAGAC	CACAAAGAGC
4551	TCAGGGCAAG	CCTTATTCAC	TGAATGAGCA	GCTTTGTTAC	GTTGATTTGG
	AGTCCCGTTC	GGAATAAGTG	ACTTACTCGT	CGAAACAATG	CAACTAAACC
4601			GTCAAGATTA		
	CATTACTTAT	AGGCCACGAA	CAGTTCTAAT	GAGAACTACT	TCCAGTCGGT
4651	GCCTATGCGC	CTGGTCTGTA	CACCGTGCAT	CTGTCCTCGT	TCAAAGTTGG
			GTGGCACGTA		
4701			TTGACCGTCT		
	AGTCAAGCCA	AGAGAATACT	AACTGGCAGA	CGCGGAGCAA	GGCCGATTCA
4751	AACATGGAGC	AGGTCGCGGA	TTTCGACACA	ATTTATCAGG	CGATGATACA
1,31			AAAGCTGTGT		
4801	AATCTCCGTT				
	TTAGAGGCAA	CATGAAACAA	AGCGCGAACC	ATATTAGCGA	CCCCCAGTTT
	0. mg. amamm	mm1 cmcm1 mm	ammmaaaama		
4851	GATGAGTGTT		GAAAGCGGAG		
	CIACICACAA	AAICACAIAA	UAAAGCGGAG	AAAGCAAAAT	CCAACCACGG
4901	TTCGTAGTGG	CATTACGTAT	TTTACCCGTT	TAATGGAAAC	TTCCTCATGC
			AAATGGGCAA		
4951	GTAAGTCTTT				
	CATTCAGAAA	TCAGGAGTTT	CGGAGGCATC	GGCAACGATG	GGAGCAAGGC

# **Figure 4H** 31/39

5001	ATGCTGTCTT TACGACAGAA	TCGCTGCTGA AGCGACGACT	GGGTGACGAT CCCACTGCTA	CCCGCAAAAG GGGCGTTTTC	CGGCCTTTGA GCCGGAAACT
5051	CTCCCTGCAA GAGGGACGTT				TGGGCGATGG ACCCGCTACC
5101	TTGTTGTCAT AACAACAGTA				TAAGAAATTC ATTCTTTAAG
5151					ACGTTGGGTG TGCAACCCAC
5201	AGGTTCCAAC TCCAAGGTTG				GGCGTATTTT CCGCATAAAA
5251	TTGAGTTATC	GAGATTTTCA	GGAGCTAAGG	AAGCTAAAAT	GGAGAAAAA CCTCTTTTT
5301	ATCACTGGAT	ATACCACCGT		CAATGGCATC	GTAAAGAACA
5351	TTTTGAGGCA	TTTCAGTCAG	TTGCTCAATG	TACCTATAAC	CAGACCGTTC
5401	AGCTGGATAT	TACGGCCTTT	AACGAGTTAC TTAAAGACCG	TAAAGAAAAA	TAAGCACAAG
5451			AATTTCTGGC CATTCTTGCC		
5501	AAAATAGGCC	GGAAATAAGT	GTAAGAACGG AAGACGGTGA	GCGGACTACT	TACGAGTAGG
	CCTCAAGGCA	TACCGTTACT	TTCTGCCACT	CGACCACTAT	ACCCTATCAC
5551		AATGTGGCAA	TTCCATGAGC AAGGTACTCG	TTTGACTTTG	CAAAAGTAGC
5601					ACATATATTC TGTATATAAG
5651	GCAAGATGTG CGTTCTACAC				CCTAAAGGGT GGATTTCCCA
5701	TTATTGAGAA AATAACTCTT				
5751	AGTTTTGATT TCAAAACTAA		CAATATGGAC GTTATACCTG		
5801	CACTATGGGC GTGATACCCG				

Figu	ure 4I	3	2/39			
5851					CGGCAGAATG GCCGTCTTAC	
5901					GGGCGTAATT CCCGCATTAA	
5951					AGCCTGAGGC TCGGACTCCG	
6001					GACCGATAAA CTGGCTATTT	
6051					CCTCAACGCA GGAGTTGCGT	
6101					TACACTTTAT ATGTGAAATA	
6151					CAATTTCACA GTTAAAGTGT	
6201		CTATGACCAT GATACTGGTA				
6251		GACAGCTATC CTGTCGATAG				
6301		AGGCCGACTA TCCGGCTGAT				
				BamHI ECORI		
6351		GTTGCTAAGT CAACGATTCA				
6401					TGGTGGCTCT ACCACCGAGA	
6451	GAGGGTGGCG CTCCCACCGC	GTTCTGAGGG CAAGACTCCC				
6501	TGGCTCTGGT ACCGAGACCA	TCCGGTGATT AGGCCACTAA				
6551	AGGGGGCTAT TCCCCCGATA	GACCGAAAAT CTGGCTTTTA				

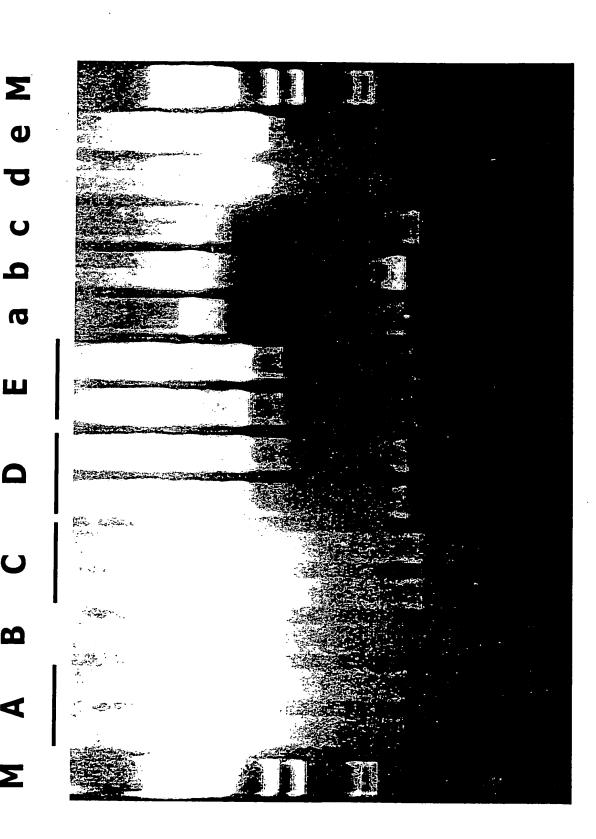
33/39 Figure 4J ClaI AAAGGCAAAC TTGATTCTGT CGCTACTGAT TACGGTGCTG CTATCGATGG 6601 TTTCCGTTTG AACTAAGACA GCGATGACTA ATGCCACGAC GATAGCTACC TTTCATTGGT GACGTTTCCG GCCTTGCTAA TGGTAATGGT GCTACTGGTG 6651 AAAGTAACCA CTGCAAAGGC CGGAACGATT ACCATTACCA CGATGACCAC 6701 ATTTTGCTGG CTCTAATTCC CAAATGGCTC AAGTCGGTGA CGGTGATAAT TAAAACGACC GAGATTAAGG GTTTACCGAG TTCAGCCACT GCCACTATTA 6751 TCACCTTTAA TGAATAATTT CCGTCAATAT TTACCTTCCC TCCCTCAATC AGTGGAAATT ACTTATTAAA GGCAGTTATA AATGGAAGGG AGGGAGTTAG GGTTGAATGT CGCCCTTTTG TCTTTGGCGC TGGTAAACCA TATGAATTTT 6801 CCAACTTACA GCGGGAAAAC AGAAACCGCG ACCATTTGGT ATACTTAAAA CTATTGATTG TGACAAAATA AACTTATTCC GTGGTGTCTT TGCGTTTCTT 6851 GATAACTAAC ACTGTTTTAT TTGAATAAGG CACCACAGAA ACGCAAAGAA TTATATGTTG CCACCTTTAT GTATGTATTT TCTACGTTTG CTAACATACT 6901 AATATACAAC GGTGGAAATA CATACATAAA AGATGCAAAC GATTGTATGA HindIII 6951 GCGTAATAAG GAGTCTTGAT A

CGCATTATTC CTCAGAACTA T

ш

 $\infty$ 

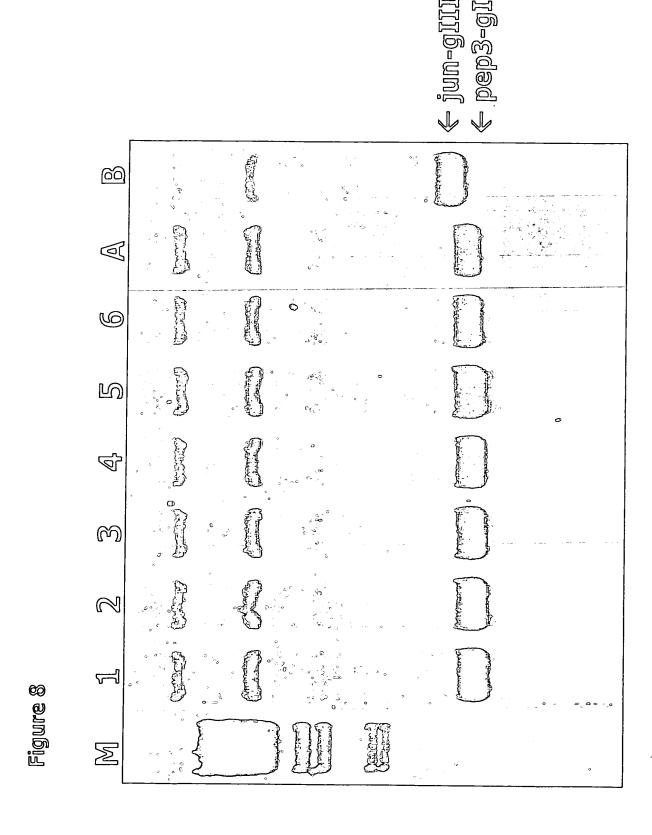
Figure 5



35/39

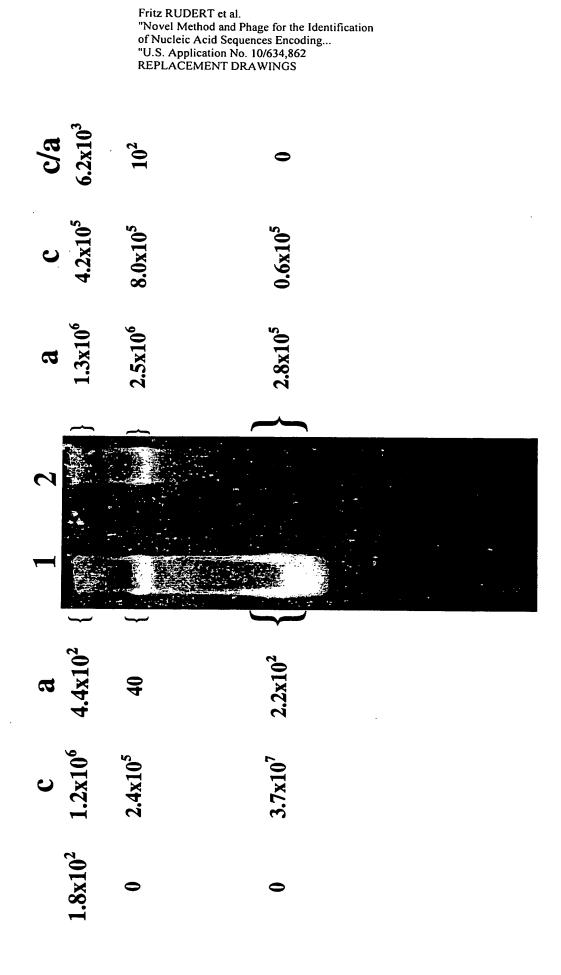
Figure 7

transductants	(t.u./ml)*	6 x 10 ⁵	0	1.2 × 10 ⁴	$8.6 \times 10^{2}$	$1.2\times10^2$	12#	1.2#	0.12#
	jun/p75ICD	•	+	<b>10</b> ²	103	104	10 ⁵	10 ₆	10,
ution factor		pos. control	leg. control						
dilu	ep3/p75ICD	1 pc	- n	Ħ	<b>H</b>	Ħ	H	Ħ	1



38/39

Figure 9



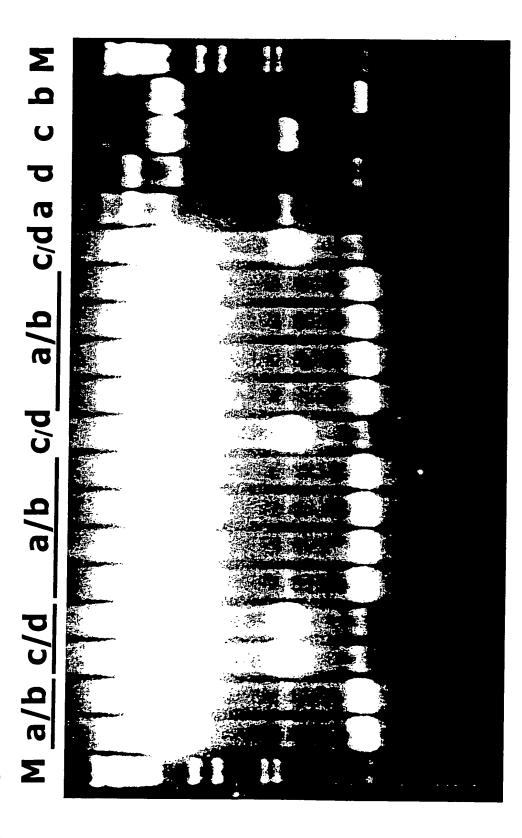


Figure 10

# This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

#### **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:				
☐ BLACK BORDERS				
$\square$ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES				
☐ FADED TEXT OR DRAWING				
☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING				
☐ SKEWED/SLANTED IMAGES				
COLOR OR BLACK AND WHITE PHOTOGRAPHS				
☐ GRAY SCALE DOCUMENTS				
☐ LINES OR MARKS ON ORIGINAL DOCUMENT				
☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY				

### IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.